Anagram

Anagram is a message that created by rearranging the character from another message (ignoring the spaces). E.g., **nat** is an anagram of **ant**, or **William Shakespeare** is an anagram of **I am a weakish speller**.

Write a program that checks if a String is an anagram of another String or not.

Input

Two lines, each line is a String that contains letters, numbers, and spaces.

Output

If both Strings are anagram of each other, display **YES**. Otherwise, display **NO**.

Example

Input (from keyboard)	Output (on screen)
`Eleven plus two` `Twelve plus one`	YES
`Elvis` `lives`	YES
`Madam Curie` `Radium came`	YES
`William Shakespeare` `I am a weakish speller`	YES
`Python` `Snakes`	NO

Hint

It might be easier to check if the letters and numbers are sorted.